



ICC-ES Evaluation Report

Issued August 2022

ESR-5078

This report is subject to renewal August 2023.

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

Section: 07 81 23—Intumescent Fire Protection

DIVISION: 09 00 00—FINISHES

Section: 09 96 43—Fire-Retardant Coatings

REPORT HOLDER:

CONTEGO INTERNATIONAL INC.

EVALUATION SUBJECT:

CONTEGO HS INTUMESCENT RFB AND CONTEGO R INTUMESCENT RFB

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2021, 2018 and 2015 *International Building Code*® (IBC)
- 2021, 2018 and 2015 *International Residential Code*® (IRC)
- 2021, 2018 and 2015 *International Fire Code*® (IFC)

For evaluation for compliance with codes adopted by Los Angeles Department of Building and Safety (LADBS), see [ESR-5078 LABC and LARC Supplement](#).

Property evaluated:

- Surface-burning characteristics

2.0 USES

Contego HS Intumescent RFB and Contego R Intumescent RFB coatings are water based acrylic latex, single component fire-retardant coatings, as defined in IFC Section 803.4 and Section 202, that are field-applied as an interior finish, by applicators approved by Contego International, Inc., to achieve the flame-spread and smoke-developed indices required by the applicable code.

3.0 DESCRIPTION

Contego HS Intumescent RFB and Contego R Intumescent RFB are spray-applied water-based acrylic latex coatings. The coatings have a shelf life of twenty-four (24) months when stored in factory-sealed containers at temperatures no less than 50°F (10°C) and no greater than 100°F (38°C).

4.0 INSTALLATION

4.1 General:

The fire-retardant coatings must be installed in accordance with this report, the manufacturer’s installation instructions and the applicable code. The manufacturer’s installation instructions must be available at the jobsite at all times during installation.

The surface to be coated must be free of dust, dirt, oil, paint, stain, varnish or sealant. The products are not for use on surfaces that may be subjected to washing or a maximum relative humidity of more than 80 percent.

The coatings must be thoroughly mixed before and throughout the application and applied using an electric, pneumatic, or gas-powered airless spray pump capable of spraying at a minimum of 3300 psi (216 kg/cm²). The ambient air temperature for application must be limited to a minimum of 50°F (10°C) and a maximum of 85°F (35°C) and relative humidity of not more than 80 percent. The substrate material surface must be prepared in accordance with the manufacturer instructions. The cure time for the fire-retardant coatings is 72 hours.

4.2 Surface-burning Characteristics:

When applied to Douglas Fir dimensional lumber or oriented strand board (OSB) rated sheathing Exposure 1 in accordance with the minimum coverage rate noted in Table 1, the coated substrates have a flame spread index of 25 or less and a smoke developed index of 200 or less when tested in accordance with ASTM E84 (UL 723) and qualify as a Class A interior finish in accordance with 2021 and 2018 IBC Section 803.1.2 (2015 IBC Section 803.1.1), 2021 and 2018 IFC Section 803.1.2 (2015 IFC Section 803.1.1) and NFPA 703.

4.3 Field Test:

When required by the code official, observation of treatment must be conducted through observing the presence of a distinctive white dye after application.

5.0 CONDITIONS OF USE

The Contego HS Intumescent RFB and Contego R Intumescent RFB coatings described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

ICC-ES Evaluation Reports are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by ICC Evaluation Service, LLC, express or implied, as to any finding or other matter in this report, or as to any product covered by the report.



- 5.1 Installation must comply with this report, the manufacturer’s published instructions, and the manufacturer’s published installation instructions and this report, this report governs.
- 5.2 Application must be limited to construction of the specific substrates set forth in Section 4.0 and Table 1 in exposed interior locations having a maximum relative humidity of less than 80 percent.
- 5.3 Field testing must be performed by the approved applicator, as indicated in Section 4.3, when required by the code official.
- 5.4 The manufacturer’s Product Documentation as shown in Figure 1, must be submitted by the approved applicator to the code official describing the material treated; the location (project address) of the treated materials.
- 5.5 Special inspections may be required when determined to be necessary by the code official in accordance with Section 1705.1.1 of the IBC.
- 5.6 The performance of products with overcoating layers is outside the scope of this report.
- 5.7 The coatings are manufactured in Silver Lakes, Indiana under a quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

Data in accordance with ICC-ES Acceptance Criteria for Surface-applied Fire-retardant Coatings (AC308), dated February 2007 (editorially revised April 2022).

7.0 IDENTIFICATION

7.1 Containers of Contego HS Intumescent RFB and Contego R Intumescent RFB fire-retardant coatings are identified by the label bearing the manufacturer’s name (Contego International Inc.) and address, the product name (Contego HS Intumescent RFB or Contego R Intumescent RFB), the date of manufacture, shelf-life, the manufacturer’s instructions for application, and the ICC-ES evaluation report number (ESR-5078) requirements]

7.2 The report holder’s contact information is the following:

CONTEGO INTERNATIONAL INC.
1013 ARTHUR STREET
POST OFFICE BOX 49
ROCHERSTER, INDIANA 46975
(800) 434-6444
www.contegointernational.com

TABLE 1—MINIMUM COVERAGE RATE

COATING	THICKNESS AND TYPE OF WOOD SUBSTRATE	COVERAGE RATE (ft²/gallon)
Contego HS Intumescent RFB or Contego R Intumescent RFB (1 coat)	7/16" inch OSB	60
Contego HS Intumescent RFB or Contego R Intumescent RFB (2 coats)	Nominal 2 x 8 Douglas Fir dimensional lumber	145

CONTEGO
INTERNATIONAL, INC.

Project Documentation

House Account (Direct Sale) Government (GSA) Distributor/Dealer OEM

Business Name:
Billing Address:
City/State/ZIP:
Telephone:
Fax:
Email:
Web Site:
Project Manager- Name and contact number.

Type of Business: Corporation Partnership Sole Proprietorship Other

Application Specifics

1. Substrate treated:	Steel	Wood	Foam	Drywall	Other
2. Project Planner submitted?					
3. Gallons purchased	Date				
4. Dates applied					
Application method: Spray Brush Roller					
5. Interior	Exterior	Both			
6. Brand of top coat (if used)					
7. Brand of primer (if used)					

Project Specifics

1. Name of structure/project (if applicable):
2. Project address:
3. Owner (Name and Contact number)
4. General Contractor (Name and contact number).
5. Applicator (Name and Contact number)

Signed by: _____ Date: _____
Print Name: _____ Title: _____

FIGURE 1—EXAMPLE OF MANUFACTURER’S CERTIFICATE FOR CONTEGO HS INTUMESCENT RFB AND CONTEGO R INTUMESCENT RFB

ICC-ES Evaluation Report ESR-5078 LABC, LARC and LAFC Supplement

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Section: 07 81 23—Intumescent Fire Protection

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Section: 09 96 43—Fire-Retardant Coatings

REPORT HOLDER:

CONTEGO INTERNATIONAL INC

EVALUATION SUBJECT:

CONTEGO HS INTUMESCENT RFB AND CONTEGO R INTUMESCENT RFB

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Contego HS Intumescent RFB and Contego R Intumescent RFB, described in ICC-ES evaluation report [ESR-5078](#), have also been evaluated for compliance with the codes noted below as adopted by the Los Angeles Department of Building and Safety (LADBS).

Applicable code editions:

- 2020 *City of Los Angeles Building Code* (LABC)
- 2020 *City of Los Angeles Residential Code* (LARC)
- 2020 *City of Los Angeles Fire Code* (LAFC)

2.0 CONCLUSIONS

The Contego HS Intumescent RFB and Contego R Intumescent RFB], described in Sections 2.0 through 7.0 of the evaluation report [ESR-5078](#), comply with the LABC Section 803.1.2, the LARC Section R302.9 and the LAFC Section 803.4 and are subject to the conditions of use described in this supplement.

3.0 CONDITIONS OF USE

Contego HS Intumescent RFB and Contego R Intumescent RFB described in this evaluation report supplement must comply with all of the following conditions:

- All applicable sections in the evaluation report [ESR-5078](#).
- The installation, conditions of use and identification of Contego HS Intumescent RFB and Contego R Intumescent RFB are in accordance with the 2018 *International Building Code*® (IBC), 2018 *International Residential Code*® and 2018 *International Fire Code*® provisions noted in the evaluation report [ESR-5078](#).
- Special inspections, in accordance with LABC Section 1705.1.1, may be required when determined to be necessary by the code official.
- Use of the fire-retardant coatings as an alternative to the fire-retardant-treated wood (FRTW) is outside the scope of this supplement

This supplement expires concurrently with the evaluation report, issued August 2022.

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1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Contego HS Intumescent RFB and Contego R Intumescent RFB, described in ICC-ES evaluation report ESR-5078, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2022 *California Building Code*® (CBC)

For evaluation of applicable Chapters adopted by the California Office of Statewide Health Planning and Development (OSHPD) AKA: California Department of Health Care Access and Information (HCAI) and the Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

- 2022 *California Residential Code*® (CRC)
- 2022 *California Fire Code*® (CFC)

2.0 CONCLUSIONS

2.1 CBC:

The Contego HS Intumescent RFB and Contego R Intumescent RFB, described in Sections 2.0 through 7.0 of the evaluation report ESR-5078, comply with CBC Chapter 803.1.2, provided the design and installation are in accordance with the 2021 *International Building Code*® (IBC) provisions noted in the evaluation report and the additional requirements of 1705.1.1, when determined to be necessary by the code official. Use of the fire-retardant-treated wood (FRTW) is outside the scope of this supplement.

2.1.1 OSHPD: The applicable OSHPD Sections and Chapters of the CBC are beyond the scope of this supplement.

2.1.2 DSA: The applicable DSA Sections and Chapters of the CBC are beyond the scope of this supplement.

2.2 CRC:

The Contego HS Intumescent RFB and Contego R Intumescent RFB, described in Sections 2.0 through 7.0 of the evaluation report ESR-5078, comply with CRC Chapter R302.9, provided the design and installation are in accordance with the 2021 *International Residential Code*® (IRC) provisions noted in the evaluation report. Use of the fire-retardant-treated wood (FRTW) is outside the scope of this supplement.

2.3 CFC:

The Contego HS Intumescent RFB and Contego R Intumescent RFB, described in Sections 2.0 through 7.0 of the evaluation report ESR-5078, comply with CFC Section 803.4, provided the design and installation are in accordance with the 2021 *International Fire Code*® (IFC) provisions noted in the evaluation report.

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1.0 REPORT PURPOSE AND SCOPE**Purpose:**

The purpose of this evaluation report supplement is to indicate that Contego HS Intumescent RFB and Contego R Intumescent RFB, described in ICC-ES evaluation report ESR-5078, has also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2020 *Florida Building Code—Building*
- 2020 *Florida Building Code—Residential*

2.0 CONCLUSIONS

The Contego HS Intumescent RFB and Contego R Intumescent RFB, described in Sections 2.0 through 7.0 of ICC-ES evaluation report ESR-5078, complies with the *Florida Building Code—Building* and the *Florida Building Code—Residential* Florida. The design requirements must be determined in accordance with the *Florida Building Code—Building* or the *Florida Building Code—Residential*, as applicable. The installation requirements noted in ICC-ES evaluation report ESR-5078 for the 2018 *International Building Code*® meet the requirements of the *Florida Building Code—Building* or the *Florida Building Code—Residential*, as applicable.

Use of the Contego HS Intumescent RFB and Contego R Intumescent RFB for compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building* or the *Florida Building Code—Residential* has not been evaluated, and is outside the scope of this supplemental report.

For products falling under Florida Rule 61G20-3, verification that the report holder's quality assurance program is audited by a quality assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official when the report holder does not possess an approval by the Commission).

This supplement expires concurrently with the evaluation report, issued August 2022.